Fall 2016 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD1602 Reclamation District No. 1602 Del	Overall LMA Rating	Total LMA Miles						
Puerto	U	6.24						
Dated Hear		Maintena	nce Deficiancy		Enforc	ement	Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	4.76		4.76	76.31%	0.01			
Encroachments					3.04	0.11		
Animal Control	0.28	0.02	0.36	5.77%				
Slope Stability	0.02		0.02	0.32%				
Supplemental		1	l					
DWR UCIP Field Study					0.03	0.10		
LMA Totals:	5.06	0.02	5.14	82.40%	3.08	0.21	0.00	0.00
Unit No. 01 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD1602	U	6.24						
Pate differen		Maintena	nce Deficiancy		Enforc	ement	Design 8 Obsole	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	4.76		4.76	76.31%	0.01			
Encroachments					3.04	0.11		
Animal Control	0.28	0.02	0.36	5.77%				
Slope Stability	0.02		0.02	0.32%				
Supplemental		1	l.	ı			ı	
DWR UCIP Field Study					0.03	0.10		
Unit Totals:	5.06	0.02	5.14	82.40%	3.08	0.21	0.00	0.00

Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1602 Del Puerto

Spring

Summer **

	(Iviai Ci i - Iviay)	(Julie - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)			U	
	** Non-receipt of Summ Reports may effect or			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated	ratings are not determ d using the same criter			ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			ation and maintenance de ended to be an indiction	
Comments				

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Left	6.24

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/7/2016 - 4/7/2016		11/8/2016 - 11/8/2016	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By	Tony Martinez RD 1602		Tony Martinez RD 1602	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.00	Rating **	Α	Issue No.		39	
LM End	0.00	Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals			0			
DWR ID DWR_RD1602_01_s _ 2012_39							
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
The LMA has all the O&M manuals.							

No Photos

LM Start	0.00	Rating **	Α	Issue No.		77	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Emergency Supplies &					0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_RD1	602_01_s _ 201	12_77				
		Comn	nent Cod	de			
Inspector Comment							
The LMA has enough flood materials in case of an incident.							

No Photos

LM Start	0.00	Rating **	Α	Issue No.		97		
LM End	0.00	Issue Type +	Ma	Location *		N/A		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Flood Pre	paredness &	Training		0		0	
item					0		0	
DWR ID	DWR_RD1	602_01_s _ 201	12_97					
		Comn	nent Coc	le				
	Inspector Comment							
	The LMA has solid understanding and most of them have flood prepareness training.							

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

	1								
LM Start	0.00	Rating **	U	Issue No.		1			
LM End	0.11	Issue Type +	En	Location *		CR			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Encroachi	ments		37.4765	60°	37.477295°			
пеш				-121.0838	62°	-121.082087 °			
DWR ID	DWR ID DWR_RD1602_01_s _ 2012_1								
		Comn	nent Cod	de					
BU : Buildi	ng								
	Inspector Comment								
Animal pens across levee crown. FIR #6301 was created for this issue.									



Looking at animal pens on crown of levee from LM 0.00 to 0.11.

LM Start	0.13	Rating **	М	Issue No.	16	
LM End	0.60	Issue Type +	Ma	Location *		WS
Catagory Earthen Levee			GPS La	atitud	le/Longitude	
Category				Start		End
Item	Vegetatio	n		37.4772	28°	37.479964°
пеш					33°	-121.074593°
DWR ID DWR_RD1602_01_f _ 2016_16						
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1 : FA_2016_RD1602_110_16_20161109_00073.jpg



View of the vegetation on the waterside of the levee. Fall 2016

LM Start	0.13	Rating **	M	Issue No.		17		
LM End	0.60	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Salegory			Start		End		
Item	Vegetation			37.4772	28°	37.479964°		
item				-121.0817	33°	-121.074593 °		
DWR ID	DWR_RD1	602_01_f _ 201	6_17					
	Comment Code							
V1 : Contro	V1 : Control annual grass and weeds on the levee slopes and							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the vegetation on the landside of the levee. Fall 2016

LS: Land Side N/A: Not Applicable WS: Water Side N/A

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintena

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.18	Rating **	М	Issue No.		20		
LM End	0.18	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	atitud	le/Longitude				
Calegory				Start		End		
Item	Animal Co	ontrol		37.4775	75°	37.477575°		
item				-121.0809	43°	-121.080943 °		
DWR ID	DWR_RD1	602_01_f _ 201	6_20					
		Comn	nent Cod	de				
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and		
		Inspecto	or Comm	nent				

No Photos

LM Start	0.20	Rating **	М	Issue No.	28		
LM End	0.20	Issue Type +	Ма	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Calegory		Start		End			
Item	Animal Co	ontrol		37.4777	06°	37.477706°	
item				-121.0806	74°	-121.080674°	
DWR ID DWR_RD1602_01_f _ 2015_28							
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



Updated picture of the rodent hole on the waterside of the levee during spring 2016 inspection.

LM Start	0.20	Rating **	M	Issue No.	28 (cont)
LM End	0.20	Issue Type +	Ma	Location *	WS

Photo 2 of 2: FA_2016_RD1602_110_28_20160823_00010.jpg



A rodent hole was found on the waterside of the levee.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A: Acceptable but Monitor & Maintain Enforcement

* Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.47	Rating **	М	Issue No.		31		
LIVI Start	0.47		IVI					
LM End	0.47	Issue Type +	Ма	Location *		WS		
Category	Category Earthen Levee				atituc	le/Longitude		
Category				Start		End		
Item	Animal Co	ontrol		37.4796	59°	37.479659°		
item				-121.0764	19°	-121.076419°		
DWR ID	DWR_RD1	602_01_f _ 201	5_31					
		Comn	nent Cod	de				
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and		
		Inspecto	or Comm	nent				

No Photos

LM Start	0.58	Rating **	U	Issue No.		204		
LM End	0.58	Issue Type +	En	En Location *		WS		
Category	Supplemental Supplemental			GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	IP Field Study		37.4801	82 °	37.480182°		
item				-121.07470	65 °	-121.074765°		
DWR ID								

Comment Code

Inspector Comment

FS_ID:21623 DS_ID:20215 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public.

FIELD_STRUCT_DESC: 16-inch pipe through levee 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward side. Concrete inlet 110-feet west of the levee crown. Originally included in 1964 O&M manual.

FS Date: 10/1/2013 7:57:22 AM

Photo 1 of 2: UCIP_FA_2016_21623_36702.jpg



60-inch CMP riser on WS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.58	Rating **	U	Issue No.		204 (cont)		
LM End	0.58	Issue Type +	En	Location *		WS		
Catagony	Category				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	P Field Study		37.4801	82°	37.480182°		
пеш				-121.0747	65 °	-121.074765 °		
DWR ID	VR ID							
Comment Code								

Inspector Comment

FS_ID:21623 DS_ID:20215 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Open 60-inch CMP riser on WS needs lid as it's

depth may be a hazard to the public.

FIELD_STRUCT_DESC: 16-inch pipe through levee 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward side. Concrete inlet 110-feet west of the levee crown. Originally included in 1964 O&M manual.

FS Date: 10/1/2013 7:57:22 AM



CMP riser with slide gate on WS shoulder.

LM Start	0.58	Rating **	М	Issue No.	208			
LM End	0.58	Issue Type +	En	Location *		WS		
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	P Field Study	P Field Study		76°	37.480176°		
item				-121.0747	36°	-121.074736 °		
DWR ID						·		

Comment Code

Inspector Comment

FS_ID:22937 DS_ID:24681 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: Communication line through the levee at an

unknown depth. FS Date: 10/1/2013

Photo 1 of 2: UCIP_FA_2016_22937_39050.jpg



Communication line access box on LS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.58	Rating **	М	Issue No.		208 (cont)		
LM End	0.58	Issue Type +	En	Location *	WS			
Category				GPS Latitude/Longitude				
Calegory	egory			Start		End		
Item	DWR UCI	P Field Study		37.48017	6°	37.480176°		
пеш				-121.07473	6°	-121.074736°		
DWR ID								
Comment Code								

Inspector Comment

FS_ID:22937 DS_ID:24681 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD_STRUCT_DESC: Communication line through the levee at an

unknown depth. FS Date: 10/1/2013



Communication line access box on LS shoulder.

LM Start	0.60	Rating **	М	Issue No.		70		
LM End	0.71	Issue Type +	En	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Category					End		
Item	Encroach	ments		37.4799	67°	37.478514°		
item				-121.0745	82 °	-121.073435°		
DWR ID DWR_RD1602_01_s _ 2012_70								
Comment Code								

FE: Fence

Inspector Comment

Barbed wire fence along the landward toe.

Photo 1 of 1: FA_2016_RD1602_110_70_20160823_00035.jpg



View of barbed wire fence at landward toe looking upstream.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

0.74	Rating **	М	Issue No.		21		
0.74	Issue Type +	Ма	Location *	WS			
Category Earthen Levee			GPS La	atitud	e/Longitude		
			Start		End		
Animal Co	ontrol		37.4782	79°	37.478279°		
-121.073010°				10°	-121.073010°		
DWR ID DWR_RD1602_01_f _ 2016_21							
	Comn	nent Coc	le				
	,	burrows	visible; nee	ed to	backfill and		
	Inspecto	or Comm	ent				
	0.74 Earthen L Animal Co DWR_RD1	0.74 Issue Type + Earthen Levee Animal Control DWR_RD1602_01_f_201 Comn dents visible, but rodent grout burrows.	0.74 Issue Type + Ma Earthen Levee Animal Control DWR_RD1602_01_f_2016_21 Comment Cocdents visible, but rodent burrows grout burrows.	0.74 Issue Type + Ma Location * Earthen Levee GPS La Start 37.4782 -121.0730 DWR_RD1602_01_f _ 2016_21 Comment Code dents visible, but rodent burrows visible; needs	0.74 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Animal Control 37.478279 -121.073010 0 DWR_RD1602_01_f _ 2016_21 Comment Code dents visible, but rodent burrows visible; need to regrout burrows.		



View of a rodent holes on the waterside of the levee. Fall 2016

LM Start	0.77	Rating **	U	Issue No.		211	
LM End	0.77	Issue Type +	En	Location *	WS		
Category			GPS Latitude/Longitude				
Calegory	ategory			Start		End	
Item	DWR UCI	P Field Study		37.4779	93 °	37.477993°	
item				-121.0726	45 °	-121.072645°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:43084 DS_ID:20216 EP_NO: N/A Repair Type: Urgent

Crossing Status: Found

UCIP Comments: Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared.

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 14.4 feet below crown. Concrete "U" headwall on both ends. Slide gate in 6'X7' concrete surge box on the waterward shoulder. Flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

Photo 1 of 2 : UCIP_FA_2016_43084_36723.jpg



Inlet on LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	0.77	Rating **	U	Issue No.	o. 211 (cont)			
LM End	0.77	Issue Type +	En	Location *	WS			
Category	ental	GPS Latitude/Longitude						
Calegory	egory					End		
Item	DWR UCI	P Field Study		37.4779	93 °	37.477993°		
пеш				-121.0726	45 °	-121.072645°		
DWR ID								
Comment Code								

Inspector Comment

FS_ID:43084 DS_ID:20216 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Flap gate blocked from functioning by soil buildup on

WS toe. Soil should be cleared.

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 14.4 feet below crown. Concrete "U" headwall on both ends. Slide gate in 6'X7' concrete surge box on the waterward shoulder. Flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013



Slide gate in concrete box on WS shoulder.

LM Start	1.00	Rating **	М	Issue No.	36			
LM End	1.00	Issue Type +	En	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Encroach	ments		37.47881	0°	37.478810°		
пеш				-121.06873	88°	-121.068738 °		
DWR ID	DWR_RD1602_01_s _ 2012_36							
	Comment Code							

RA: Ramp

Inspector Comment

Photo 1 of 1: FA_2016_RD1602_110_36_20160823_00014.jpg



View of the ramp on the crown. The picture was taken from crown looking downstream.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement

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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.00	Rating **	U	Issue No.		205			
LM End	1.00	Issue Type + En Location *		Location *		Location *		WS	
Supplemental			GPS Latitude/Longitude						
Calegory	Category			Start		End			
Item	DWR UCI	P Field Study		37.47881	6°	37.478816 °			
пеш				-121.06878	80°	-121.068780 °			
DWR ID						·			

Comment Code

Inspector Comment

FS_ID:21639 DS_ID:20217 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Appears abandoned and if so should be done so

properly. Flapgate missing.

FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch pipe through levee 17.0 feet below crown. Pumps on pump platform on the landward side. Siphon breaker in 24-inch CMP risers on the waterward shoulder. Concrete "U" headwall and flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

LM Start	1.00	Rating **	U	Issue No.	205 (cont)
LM End	1.00	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_21639_36758.jpg



Pumping plant on LS toe. Pipe visible under walkway.

Photo 2 of 2: UCIP_FA_2016_21639_36757.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.00	Rating **	U	Issue No.		206		
LM End	1.00	Issue Type +	En	Location *		WS		
Category	Suppleme	ental		GPS Latitude/Longitude				
Category				Start	End			
Item	DWR UCI	P Field Study		37.4788°	17°	37.478817°		
пеш				-121.0687	73 °	-121.068773°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:21642 DS_ID:20219 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Appears abandoned siphon breakers covered in soil

and flapgate missing.

FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch pipe through levee 17.0 feet below crown. Pumps on pump platform on the landward side. Siphon breakers in 24-inch risers on the waterward shoulder. Concrete "U" headwall and flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

LM Start	1.00	Rating **	U	Issue No.	206 (cont)
LM End	1.00	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_21642_36772.jpg



Pipe visible under walkway at puming plant on LS toe.

Photo 2 of 2: UCIP FA 2016 21642



Siphon breaker covered in soil at CMP riser on WS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.02	Rating **	U	Issue No.		210	
LM End	1.02	Issue Type +	En	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory						End	
Item	DWR UCI	P Field Study		37.47877	9°	37.478779	0
пеш				-121.06850	8°	-121.068508	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:41771 DS_ID:20218 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flapgate

missing from WS toe headwall.

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee 25.4 feet below crown. Concrete "U" headwalls on both ends. Slide gate in concrete surge box on the waterward slope. 5'X5' concrete box on LS toe. Flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

LM Start	1.02	Rating **	U	Issue No.	210 (cont)
LM End	1.02	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_41771_36786.jpg



Grated inlet and 5'X5' concrete box on LS toe.

Photo 2 of 2: UCIP_FA_2016_41771_36785.jpg



Grated inlet at LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.05	Rating **	М	Issue No.		37	
LM End	1.05	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		37.4785	67°	37.478567°	
пеш				-121.067847°			
DWR ID	DWR_RD1602_01_s _ 2012_37						
		Comn	nent Cod	de			
S1 : Repai	r slope ins	tability.					
		Inspecto	or Comm	nent			
Small amount of slumping at waterside toe of the levee.							

LM Start	1.05	Rating **	M	Issue No.	37 (cont)
I M End	1.05	Issue Type +	Ma	Location *	WS



Updated picture of the depression at the waterside toe of the levee. The picture was taken from the crown of the levee looking upstream.

Photo 2 of 2: FA_2016_RD1602_110_37_20160823_00016.jpg



Depression at the waterside slope of the levee during Spring 2011 inspection.

LM Start	1.06	Rating **	M	Issue No.		23	
LM End	1.49	Issue Type +	Ma	Location *		LS	
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.4785	25°	37.478702°	
item				-121.067700 °		-121.060421 °	
DWR ID	DWR_RD1602_01_f _ 2016_23						
		Comn	nent Cod	de			
V1 : Contreasements		rass and wee	ds on th	e levee slop	oes a	and	
		Inspecto	or Comm	nent			





View of the landside slope of the levee. Fall 2016

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.11	Rating **	М	Issue No.		11	
LM End	1.11	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.4783	871°	37.478371°	
item				-121.066793 ° -121.066			
DWR ID DWR_RD1602_01_s _ 2013_11							
		Comn	nent Cod	de			
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			

1000 2018
Control of the Contro
Rodent holes were found on the waterside slope of the levee looking

 LM Start
 1.11
 Rating **
 M
 Issue No.
 11 (cont)

 LM End
 1.11
 Issue Type +
 Ma
 Location *
 WS

downstream. Fall 2013

Photo 2 of 2 : FA_2016_RD1602_110_11_20160823_00003.jpg

Photo 1 of 2: FA_2016_RD1602_110_11_20160823_00002.jpg



A rodent hole was found on the waterside toe of the levee looking downstream.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.14	Rating **	М	Issue No.		65	
LM End	1.14	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS La	atitud	e/Longitude	
				Start		End	
Animal Control				37.4782	85°	37.478285 °	
пеш				-121.066299°		-121.066299°	
DWR ID DWR_RD1602_01_f _ 2012_65							
		Comn	nent Cod	de			
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
		Inspecto	or Comm	nent			

Photo 1 of 2: FA_2016_RD1602_110_65_20160823_00031.jpg
owerana

Updated picture of the rodent hole on waterside of the levee during spring 2016 inspection.

LM Start 1.14 Rating ** M Issue No. 65 (cont) LM End 1.14 Issue Type + Ma Location * WS

Photo 2 of 2: FA_2016_RD1602_110_65_20160823_00032.jpg



View of rodent hole on the waterside slope of the levee looking upstream during fall 2013 inspection.

LM Start	1.51	Rating **	М	Issue No.		26
LM End	2.97	Issue Type +	Ма	Location *		WS
Category	evee	GPS La	atitud	e/Longitude		
Calegory		Start		End		
Vegetation			37.4786	10°	37.464948°	
item				-121.0602	53°	-121.044393 °
DWR ID DWR_RD1602_01_f _ 2016_26						
		Comn	nent Cod	de		
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						



View of vegetation on the waterside of the levee. Fall 2016

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.60	Rating **	M	Issue No.		27		
LM End	1.84	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	titud	le/Longitude				
Category				Start		End		
Item	Vegetation			37.4778	43°	37.474521 °		
пеш				-121.0588	75°	-121.057945 °		
DWR ID DWR_RD1602_01_f _ 2016_27								
		Comn	nent Cod	de				
V1 : Contro	ol annual g	rass and wee	ds on th	e levee slop	es	and		
easements	S.							
		Inspecto	or Comm	nent				
Inspector Comment								

No Photos

		D						
LM Start	1.61	Rating **	М	Issue No.		43		
LM End	2.27	Issue Type +	En	Location *		LS		
Category	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End		
Item	Encroachments			37.4776	63°	37.470264 °		
item				-121.058716 °		-121.054377 °		
DWR ID	DWR_RD1	602_01_s _ 201	2_43					
		Comn	nent Cod	de				
FE : Fence)							
	Inspector Comment							
Fence at the	Fence at the landside toe of the levee.							

Photo 1 of 1: FA_2016_RD1602_110_43_20160823_00018.jpg

View of the fence on the landside toe of the levee. The picture was taken from crown looking upstream.

LM Start	1.69	Rating **	С	Issue No.		18		
LM End	1.69	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory	Category					End		
Item	Animal Co	37.4765	76°	37.476576	0			
пеш		-121.058174°		-121.058174	0			
DWR ID	DWR_RD1	602_01_s _ 201	3_18					
		Comn	nent Cod	de				
	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.							
	Inspector Comment							

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	1.88	Rating **	М	Issue No.		29
LM End	1.88	Issue Type +	Ма	Location *	LS	
Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.4739	61°	37.473961 °
пеш				-121.057936 °		-121.057936°
DWR ID	DWR_RD1	602_01_f _ 201	6_29			·
		Comn	nent Cod	de		
A3 : No roccompact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		



View of rodent holes on the landside of the levee. Fall 2016

LM Start	2.03	Rating **	М	Issue No.		45	
LM End	2.03	Issue Type +	En	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments	37.471734°		37.471734°		
пеш				-121.057670°		-121.057670°	
DWR ID	DWR_RD1	602_01_s _ 201	2_45				
		Comn	nent Cod	de			
EQ : Equip	ment						
	Inspector Comment						

A well is present at the toe of the landside of the slope.



A well is located at the landside toe of the levee. The picture was taken from the crown looking toward the landside of the levee.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	2.06	Rating **	М	Issue No.		33		
LM End	2.37	Issue Type +	Ma	Location *		LS		
Catagory	Category Earthen Levee				GPS Latitude/Longitude			
Calegory	alegory —			Start		End		
Item	Vegetatio	getation 37.4713			67°	37.470468	0	
пеш				-121.057471 °		-121.052584	0	
DWR ID	DWR_RD1	602_01_f _ 201	6_33					
		Comn	nent Cod	de				
V1 : Contre		grass and wee	ds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				

No Photos

LM Start	2.23	Rating **	М	Issue No.		59	
LM End	3.30	Issue Type +	En	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	y			Start		End	
Item	Encroachments			37.470119°		37.461147°	
пеш				-121.0551	17°	-121.041785°	
DWR ID	DWR_RD1	602_01_s _ 201	2_59				
		Comn	nent Cod	de			
DT : Ditch							

Inspector Comment

Concrete ditch was constructed before the levee was built.

Photo 1 of 1: FA_2016_RD1602_110_59_20160823_00026.jpg



Concrete drain was built at the toe of the levee. The picture was taken from the crown looking upstream.

LM Start	2.56	Rating **	М	Issue No.		34	
LM End	2.56	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start	End		
Item	Animal Co	ontrol		37.469250°		37.469250 °	
пеш				-121.0494	15 °	-121.049415 °	
DWR ID DWR_RD1602_01_f _ 2016_34							
	Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





View of rodent holes on the landside shoulder of the levee. Fall 2016

* Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS: Land Side N : Not Inspected/Rated C : Corrected N/A: Not Applicable : Acceptable : Minimally Acceptable WS: Water Side A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	2.65	Rating **	М	Issue No.		38	
LM End	2.90	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetatio	n	37.4683	81 °	37.465845 °		
пеш				-121.0483	24 °	-121.045159°	
DWR ID	DWR_RD1	602_01_f _ 201	6_38				
		Comn	nent Cod	de			
V1 : Contro easements		rass and wee	ds on th	e levee slop	oes	and	
		Inspecto	or Comm	nent			

No Photos

LM Start	2.67	Rating **	М	Issue No.		19		
LM End	2.67	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee	GPS Latit			tude/Longitude		
Calegory				Start		End		
Item	Animal Co	ontrol		37.4682	12°	37.468212°		
пеш				-121.0480	96°	-121.048096°		
DWR ID DWR_RD1602_01_s _ 2016_19								
		Comn	nent Cod	de				

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_RD1602_110_19_20160823_00005.jpg



View of rodent holes on the waterside of the levee.

LM Start	2.73	Rating **	М	Issue No.		40	
LM End	2.73	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude			le/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.4675	07°	37.467507°	
пеш				-121.0472	45 °	-121.047245°	
DWR ID	DWR ID DWR_RD1602_01_f _ 2016_40						
		Comment Code					

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent hole on the landside of the levee. Fall 2016

* Location LS : Land Side N WS : Water Side

N/A : Not Applicable

ble A : Acce

U : Unacceptable

: Acceptable N : Not Inspect : Minimally Acceptable C : Corrected

N : Not Inspected/Rated

+ Issue Type Ma : Mainter

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

A/W : Acceptable but Monitor & Maintain En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	2.79	Rating **	М	Issue No.		41
LM End	2.79	Issue Type +	Ма	Location *		WS
Earthen Levee				GPS La	atitud	le/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.4668	87°	37.466887°
пеш					-121.046460 °	
DWR ID	DWR_RD1	602_01_f _ 201	6_41			
		Comn	nent Cod	le		
	dents visib r grout bur	le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	ent		



View of rodent holes on the waterside slope of the levee. Fall 2016

LM Start	2.82	Rating **	М	Issue No.		44			
LM End	2.82	Issue Type +	Ma	Location *		LS			
Catagory	Category Earthen Levee				GPS Latitude/Longitude				
Calegory	ategory					End			
Item	Animal Co	ontrol		37.4666	45 °	37.466645	0		
пеш				-121.0461	48 °	-121.046148	0		
DWR ID	DWR_RD1	602_01_f _ 201	6_44						
		Comn	nent Coc	le					

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	2.85	Rating **	М	Issue No.	46				
LM End	2.85	Issue Type +	Ма	Location *		WS			
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory	Category			Start		End			
Item	Animal Co	ontrol		37.46629	4 °	37.466294	٥		
Item				-121.04569	3°	-121.045693	0		
DWR ID	DWR_RD1	602_01_f _ 201	6_46						
		Comn	nent Cod	le					

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

*	L	ОС	atio	on
		_		

N/A: Not Applicable

LS: Land Side WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	2.86	Rating **	М	Issue No.		47
LM End	2.86	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory			Start		End	
ltom	Animal Control			37.4661	66°	37.466166°
пеш				-121.045527° -121.04552		
DWR ID DWR_RD1602_01_f _ 2016_47						
		Comn	nent Cod	de		
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		

Photo 1 of 1: FA_2016_RD1602_110_47_20161109_00082.jpg

View of rodent holes on the waterside of the levee. Fall 2016

2.89	Rating **	M	Issue No.		49			
2.89	Issue Type +	Ма	Location *		WS			
Category Earthen Levee				GPS Latitude/Longitude				
Category					End			
Animal Co	ontrol		37.4658	98°	37.465898°			
			-121.0452	09°	-121.045209°			
DWR_RD1	602_01_f _ 201	6_49			·			
	2.89 Earthen L Animal Co	2.89 Issue Type + Earthen Levee Animal Control	2.89 Issue Type + Ma Earthen Levee	2.89 Issue Type + Ma Location * Earthen Levee GPS La Start Start Animal Control 37.4658 -121.0452	2.89 Issue Type + Ma Location * Earthen Levee GPS Latitud			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	2.94	Rating **	М	Issue No.		51		
LM End	2.94	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Animal Co	ontrol		37.4653	32°	37.465332	0	
item				-121.0447	12°	-121.044712	0	
DWR ID	DWR_RD1	602_01_f _ 201	6_51					
		Comn	nent Cod	le				

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location

LS : Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.09	Rating **	U	Issue No.		52
LM End	3.09	Issue Type +	Ma	Location *		WS
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory	Start End					
Item	Animal Co	ontrol		37.4636	63°	37.463663°
item		-121.042950 ° -121.04				-121.042950 °
DWR ID	DWR_RD1	602_01_f _ 201	6_52			·
		Comn	nent Cod	de		
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		



View of rodent holes on the waterside slope of the levee. Fall 2016

LM Start	3.10	Rating **	M	Issue No.		24	
LM End	3.10	Issue Type +	Ма	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Co	ontrol		37.4635	63°	37.463563°	
item				-121.0427	84°	-121.042784°	
DWR ID DWR_RD1602_01_s _ 2016_24							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment





View of rodent holes on the waterside of the levee looking upstream.

LM Start	3.16	Rating **	М	Issue No.		25			
LM End	3.16	Issue Type +	Ма	Location *		WS			
Catagory	Category Earthen Levee				GPS Latitude/Longitude				
Category				Start End					
Item	Animal Co	ontrol		37.4629	47°	37.462947°			
пеш				-121.0419	67°	-121.041967°			
DWR ID	DWR_RD1	602_01_s _ 201	6_25			·			
		_							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside toe of the levee looking upstream. Fall 2016

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain

** Rating

A: Acceptable M: N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.27	Rating **	U	Issue No.		207		
LM End	3.27	Issue Type +	En	Location *	WS			
Category				GPS Latitude/Longitude				
Calegory		Start		End				
Item	DWR UCI	P Field Study		37.46150	7°	37.461507°		
пеш				-121.04160	9°	-121.041609°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:21652 DS_ID:20204 EP_NO: 8193 Repair Type: Urgent

Crossing Status: Found

UCIP Comments: Appears abandoned, and if so should be done so properly. No handle on slide gate, no cover on CMP standpipe on WS shoulder.

FIELD_STRUCT_DESC: 16-inch pipe through levee 11.5 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Discharge into concrete-lined ditch on the landward side (Permit No. 8193, 1964). Originally included in 1964 O&M manual. FS Date: 10/1/2013

LM Start	3.27	Rating **	U	Issue No.	207 (cont)
LM End	3.27	Issue Type +	En	Location *	WS



Pipe visible in concrete channel on LS toe.

Photo 2 of 2: UCIP_FA_2016_21652_36804.jpg



Slide gate in 60-inch CMP riser on WS shoulder.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.30	Rating **	М	Issue No.		54	
LM End	3.46	Issue Type +	En	Location *	LS		
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Encroach	ments		37.4611	47°	37.459242°	
пеш				-121.041785 °		-121.043582°	
DWR ID DWR_RD1602_01_f _ 2013_54							
		Comn	nent Cod	de			
DT : Ditch							
			_				
		Inspect	or Comm	nent			
Concrete I	Concrete lined ditch on the landside toe of the levee.						



A concrete lined ditch was found on the landside toe of the levee looking upstream.

LM Start	3.30	Rating **	М	Issue No.		53
LM End	3.30	Issue Type +	Ма	Location *	n* WS	
Category Earthen Levee			GPS Latitude/Longitude			
Category	Category					End
Item	Animal Co	ontrol		37.4611)3°	37.461103°
пеш						-121.041820°
DWR ID DWR_RD1602_01_f _ 2016_53						

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	3.32	Rating **	М	Issue No.		56		
LM End	3.32	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Category	Category		Start		End			
Item	Animal Co	ontrol		37.460811 °		37.460811	0	
пеш				-121.0420	78 °	-121.042078	0	
DWR ID	DWR_RD1	602_01_f _ 201	6_56					
		Comn	nent Coo	de				

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the landside of the levee. Fall 2016

* Location LS: Land Side

N/A: Not Applicable

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Page 23 of 37 **FINAL DATA**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.34	Rating **	М	Issue No.		50		
LM End	3.53	Issue Type +	En	Location *	WS			
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroachi	ments		37.4606	644°	37.458373 °		
item				-121.0422	-121.044081 °			
DWR ID DWR_RD1602_01_s _ 2012_50								
		Comn	nent Cod	de				
DT : Ditch								
		Inspecto	or Comm	nent				
A ditch is located on waterside toe of the levee.								

Photo 1 of 1: FA_2016_RD1602_110_50_20160823_00021.jpg

A ditch was located on the waterside toe of the levee. The picture was taken from the crown looking upstream.

LM Start	3.34	Rating **	М	Issue No.		57		
LM End	3.43	Issue Type +	Ма	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	Vegetation			44°	37.459573°		
пеш				-121.0422	39°	-121.043275 °		
DWR ID	DWR_RD1	602_01_f _ 201	6_57					
		Comn	nent Cod	de				
V2 : Remove the wild growth other than native grasses from the levee slopes.								

Inspector Comment

No Photos

LM Start	3.62	Rating **	М	Issue No.		58			
LM End	3.62	Issue Type +	Ma	Location *		WS			
LIVI LIIU	3.02		IVIA	2000		****			
Category Earthen Levee		GPS Latitude/Longitude							
Culogory	Category			Start		End			
Item	Animal Co	ontrol		37.4571	10°	37.457110°			
пеш				-121.0447	05°	-121.044705°			
DWR ID DWR_RD1602_01_f _ 2016_58									
	Comment Code								

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.63	Rating **	М	Issue No.		60		
LM End	3.63	Issue Type +	Ма	Location *		LS		
Catagory Earthen Levee				GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Animal Control				943°	37.456943°		
пеш			-121.0447	'18 °	-121.044718°			
DWR ID	DWR_RD1	602_01_f _ 201	6_60					
		Comn	nent Cod	de				
A3 : No ro compact of		le, but rodent rows.	burrows	visible; ne	ed to	backfill and		
	Inspector Comment							



View of rodent hole on the landside toe of the levee. Fall 2016

LM Start	3.66	Rating **	М	Issue No.		68
LM End	3.66	Issue Type +	Ма	Location *		WS
Category Earthen Levee			GPS La	titud	le/Longitude	
Calegory				Start		End
Item	Animal Co	ontrol		37.4565	93°	37.456593°
item					54°	-121.044654 °
DWR ID	DWR_RD1	602_01_f _ 201	6_68			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	3.82	Rating **	М	Issue No.		42		
LM End	3.82	Issue Type +	En	Location *		LS		
Category	Catagoria Earthen Levee				atitud	e/Longitude		
Category				Start		End		
Item	Vegetatio	n		37.4545	74°	37.454574°		
пеш				-121.0431	42 °	-121.043142°		
DWR ID	DWR_RD1	602_01_s _ 201	12_42					
		Comn	nent Cod	de				
V6 : Lands	scaping							
	Inspector Comment							



Remove landscaping from within 10' of landside toe.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain

** Rating

A: Acceptable M: N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.86	Rating **	U	Issue No.	201			
LM End	3.86	Issue Type +	En	Location *	LS			
Category				GPS Latitude/Longitude				
Calegory					Start			
Item	DWR UCI	P Field Study		37.45408	30°	37.454080°		
item				-121.0427	58°	-121.042758°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:21656 DS_ID:20206 EP_NO: 7796 Repair Type: Urgent

Crossing Status: Indicator Found

UCIP Comments: Gasline needs sign markers at levee.

FIELD_STRUCT_DESC: 12.75-inch gas line crossing through levee 3.0 feet below crown (Permit No. 7796, 1972). Originally included in the

1964 O&M manual. FS Date: 10/1/2013

No Photos

LM Start	3.87	Rating **	М	Issue No.		66			
LM End	3.92	Issue Type +	En	Location *		LS			
Category	Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Encroachi	achments		37.453936°		37.453309°			
пеш			-121.0426	73 °	-121.042191 °				
DWR ID	DWR_RD1	602_01_f _ 201	3_66						

FE : Fence

Inspector Comment

Comment Code



Fences were found on the landside toe of the levee looking upstream.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	3.93	Rating **	М	Issue No.		62	
LM End	3.93	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		37.4532	216°	37.453216°	
пеш			-121.042127°		-121.042127°		
DWR ID	DWR_RD1	602_01_s _ 201	2_62				
		Comn	nent Cod	de			
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	I prevent	
Inspector Comment							
	Significant damage to USACE constructed seepage berm due to human activity.						

Photo 1 of 1: FA_2016_RD1602_110_62_20160823_00028.jpg



Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic.

LM Start	3.94	Rating **	М	Issue No.		63
LM End	4.04	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachments				83°	37.451866°
пеш				-121.042301 °		-121.041206°
DWR ID	DWR_RD1	602_01_s _ 201	2_63			
		Comn	nent Cod	de		
FE : Fence	е					
		Inspecto	or Comm	nent		



View of a barbed wire fence on the landward slope looking upstream.

LM Start	3.98	Rating **	М	Issue No.		69
LM End	3.98	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS La	atituc	de/Longitude
Category				Start		End
Item	Animal Co	ontrol		37.452640 °		37.452640 °
Item				-121.0416	46°	-121.041646 °
DWR ID	DWR_RD1	602_01_f _ 201	6_69			
		Comn	nent Cod	de		
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	4.20	Rating **	С	Issue No.		30		
LM End	4.20	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS La	atitud	e/Longitude			
Calegory				Start		End		
Item	Animal Co	Animal Control			95°	37.450095 °		
пеш				-121.0393	08°	-121.039308°		
DWR ID	DWR_RD1	602_01_s _ 201	6_30					
		Comn	nent Coo	de				
A1 : Exterr	minate rod	ents and back	fill and c	compact or	grou	t burrows.		
		Inspecto	or Comm	nent				
LMA fixed	LMA fixed the animal holes in the area.							

No Photos

LM Start	4.24	Rating **	М	Issue No.		71		
LM End	4.24	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End			
ltom	Animal Co	ontrol		37.44960)8 °	37.449608°		
Item			-121.03896	88°	-121.038968°			
DWR ID DWR_RD1602_01_f _ 2016_71								
	Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and

compact or grout burrows.

Inspector Comment

No	Photos

LM Start	4.35	Rating **	С	Issue No.	32				
LM End	4.35	Issue Type +	Ма	Location *	WS				
Category Earthen Levee				GPS Latitude/Longitude					
Category				Start	End				
Item	Animal Co	ontrol		37.4481	49°	37.448149	0		
пеш		-121.0380	71 °	-121.038071	0				
DWR ID DWR_RD1602_01_s _ 2016_32									
	Comment Code								

A1: Exterminate rodents and backfill and compact or grout burrows.

Inspector Comment

LMA backfilled all of the animal holes in this area.

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	4.42	Rating **	М	Issue No.		67	
LM End	4.88	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		37.4472	213°	37.441014°	
item						-121.036932 °	
DWR ID DWR_RD1602_01_s _ 2012_67							
		Comn	nent Cod	de			
FE : Fence	Э						
		Inspecto	or Comm	nent			

Photo 1 of 1: FA_2016_RD1602_110_67_20160823_00034.jpg



View of the fence on the landside toe of the levee. The picture was taken from the crown looking upstream.

LM Start	4.47	Rating **	U	Issue No.	202			
LM End	4.47	Issue Type +	En	Location *	LS			
Category				GPS Latitude/Longitude				
Category				Start		End		
Item	DWR UCI	P Field Study		37.4465	45 °	37.446545°		
пеш				-121.0379	41 °	-121.037941 °		
DWR ID						·		
	Comment Code							

Inspector Comment

FS_ID:21657 DS_ID:20207 EP_NO: 8195 Repair Type: Urgent Crossing Status: Found

UCIP Comments: Lid missing from 60-inch CMP riser, may be an attractive nuissance or hazard to public.

FIELD_STRUCT_DESC: 18-inch pipe through levee 10.0 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Concrete discharge box on landward end. Pipe is buried across waterward berm to pump on the riverbank approximately 1,000 feet from the levee. (Permit No. 8195, 1972). Originally included in 1964 O&M manual. FS Date: 10/1/2013

Photo 1 of 2: UCIP_FA_2016_21657_36819.jpg



Slide gate in CMP riser on WS slope.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	4.47	Rating **	U	Issue No.		202 (cont)	
LM End	4.47	Issue Type +	En	Location *	LS		
Category			GPS Latitude/Longitude				
Calegory				Start		End	
Item	DWR UCI	P Field Study		37.4465	45 °	37.446545°	
item				-121.0379	41 °	-121.037941 °	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:21657 DS_ID:20207 EP_NO: 8195 Repair Type: Urgent Crossing Status: Found

UCIP Comments: Lid missing from 60-inch CMP riser, may be an attractive nuissance or hazard to public.

FIELD_STRUCT_DESC: 18-inch pipe through levee 10.0 feet below crown. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Concrete discharge box on landward end. Pipe is buried across waterward berm to pump on the riverbank approximately 1,000 feet from the levee. (Permit No. 8195, 1972). Originally included

in 1964 O&M manual. FS Date: 10/1/2013



Slide gate in CMP riser on WS slope.

LM Start	4.47	Rating **	М	Issue No.	64		
LM End	4.63	Issue Type +	En	Location *	LS		
Catagory Earthen Levee GPS Latitude/Lor					le/Longitude		
Category			Start		End		
Item	Encroachments			37.446485°		37.444290°	
item				-121.0380	37°	-121.037953°	
DWR ID	DWR_RD1	602_01_s _ 201	2_64				
		Comn	nent Cod	le			
DT : Ditch							
		Inspecto	or Comm	ent			



View of a ditch on the landside toe of the levee looking upstream.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	4.52	Rating **	М	Issue No.		35	
LM End	4.52	Issue Type +	Ма	Location *		WS	
Category	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Animal Co	ontrol		37.4457	85°	37.445785 °	
item		-121.037774 ° -121.037774					
DWR ID DWR_RD1602_01_s _ 2016_35							
		Comn	nent Cod	de			
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
		Inspecto	or Comm	nent			



View of an animal hole on the waterside shoulder of the levee looking downstream.

LM Start	4.77	Rating **	М	Issue No.		74		
LM End	4.77	Issue Type +	Ма	Location *	WS			
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Animal Co	ontrol		37.4424	65 °	37.442465°		
item				-121.0369	47°	-121.036947 °		
DWR ID	DWR_RD1602_01_s _ 2015_74							
Comment Code								

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1: FA_2016_RD1602_110_74_20160823_00036.jpg



View of a rodent hole on the waterside toe of the levee.

LM Start	4.86	Rating **	М	Issue No.		72	
LM End	5.23	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitud		
Category				Start		End	
Item	Vegetatio	n		37.4412	65°	37.436208	0
пеш				-121.0367	79°	-121.036128	0
DWR ID	DWR_RD1	602_01_f _ 201	6_72				
		Comp	nent Coc	10			

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

*	L	oc:	atio	n	

N/A: Not Applicable LS: Land Side

WS: Water Side

: Acceptable : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	4.86	Rating **	М	Issue No.		73	
LM End	5.23	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		37.4412	64°	37.436208 °	
пеш				-121.036779°		-121.036128°	
DWR ID DWR_RD1602_01_f _ 2016_73							
		Comn	nent Cod	de			
V1 : Contre easements		rass and wee	ds on th	e levee slo	oes a	and	
		Inspecto	or Comm	nent			

Photo 1 of 1 : FA_2016_RD1602_110_73_20161109_00087.jpg

View of vegetation on the landside slope of the levee. Fall 2016

LM Start	5.09	Rating **	М	Issue No.		199	
LM End	5.09	Issue Type +	Ma	Location *	WS		
Category	Catagori Earthen Levee			GPS Latitude/Longitude			
Calegory						End	
Item	Animal Co	ontrol		37.4381	65 °	37.438165°	
item				-121.0370	73°	-121.037073°	
DWR ID	DWR_RD1602_01_s _ 2014_199						
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1: FA_2016_RD1602_110_199_20160823_00039.jpg



Rodent holes were found on the waterside toe of the levee looking upstream.

LM Start	5.18	Rating **	U	Issue No.		48
LM End	5.18	Issue Type +	Ма	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Category						End
Item	Animal Co	ontrol		37.4367	85°	37.436785 °
пеш			-121.0365	93 °	-121.036593 °	
DWR ID	D DWR_RD1602_01_s _ 2016_48					

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes possibly worsen by help of dogs.



View of rodent holes on the waterside of the levee looking downstream.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	5.19	Rating **	U	Issue No.		212		
LM End	5.19	Issue Type +	En	Location *		WS		
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCI	P Field Study		37.4367	48°	37.436748°		
item				-121.0365	97°	-121.036597°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:42983 DS_ID:20208 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover.

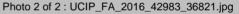
FIELD_STRUCT_DESC: 24-inch pipe through levee 11.6 feet below crown. Concrete headwall on the landward end. Concrete "U" headwall and flap gate on the waterward end. Slide gate in 60-inch corrugated metal pipe riser on the waterward slope. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

LM Start	5.19	Rating **	U	Issue No.	212 (cont)
LM End	5.19	Issue Type +	En	Location *	WS



Slide gate in CMP riser on WS slope. Outlet visible under tree in background.





Flapgate in Concrete headwall on WS toe under tree.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	5.29	Rating **	М	Issue No.		75	
LM End	5.49	Issue Type +	Ma	Location *		WS	
Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Vegetation			37.4355	55 °	37.433277°	
пеш				-121.0353	-121.033318 °		
DWR ID DWR_RD1602_01_s _ 2012_75							
		Comn	nent Cod	le			
V2 : Remo	ve the wild	d growth other	than na	tive grasses	s fro	m the levee	
		Inspecto	or Comm	ent			



Vegetation was found on the waterside slope of the levee looking upstream during fall 2016 inspection.

Photo 1 of 1: FA_2016_RD1602_110_61_20160823_00027.jpg

LM Start	5.35	Rating **	М	Issue No.		61	
LM End	5.45	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory	Category			Start		End	
Item	Vegetatio	n		37.4347	32°	37.433660°	
item				-121.0350	88°	-121.033838°	
DWR ID DWR_RD1602_01_s _ 2012_61							
		Comp	nont Coc	10			

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



Vegetation was obstructing the view of the landside of the levee.

Photo 1 of 1: FA_2016_RD1602_110_22_20160823_00006.jpg

LM Start	5.38	Rating **	М	Issue No.		22			
LM End	5.44	Issue Type +	En	Location *		LS			
Category Earthen Levee			GPS La	titud	e/Longitude				
Category				Start		End			
ltem Encroachments			37.43444	17°	37.433791 °				
пеш				-121.03486	65°	-121.034000 °			
DWR ID	DWR_RD1	602_01_f _ 201	2_22						
		Comn	nent Coo	le					
FE : Fence									
	Inspector Comment								



A fence was found on the landside toe of the levee looking upstream.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	5.46	Rating **	М	Issue No.		203		
LM End	5.46	Issue Type +	En	Location *	LS			
Supplemental				GPS Latitude/Longitude				
Calegory	ategory					End		
Item	DWR UC	P Field Study		37.43364	6°	37.433646°		
пеш				-121.03384	6 °	-121.033846 °		
DWR ID								
Comment Code								

Inspector Comment

FS ID:21674 DS_ID:20211 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned and if so should be done so

FIELD_STRUCT_DESC: *ABANDONED* 12-inch drain pipe through levee 6.9 feet below c own. Flap gate on the waterward end. (Maint. 1602) (could not locate 3/84) Originally included in 1964 O&M manual. FS Date: 10/1/2013



Pipe and flapgate visible on WS toe.

LM Start	5.72	Rating **	U	Issue No.		209
LM End	5.72	Issue Type +	En	Location *		LS
Category	ental	GPS Latitude/Longitude				
Calegory	Category					End
Item	DWR UC	IP Field Study		37.4330	03 °	37.433003°
item				-121.0293	46°	-121.029346°
DWR ID						

Comment Code

Inspector Comment

FS_ID:43100 DS_ID:20212 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Flapgate has minor blockage preventing gate from

fully closing.

FIELD_STRUCT_DESC: 30-inch square reinfornced concrete box culvert through levee 9.0 feet below crown. Slide gate in concrete surge box on the waterward slope. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013

Photo 1 of 2: UCIP_FA_2016_43100_36878.jpg



Slide gate in concrete riser on WS shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	5.72	Rating **	U	Issue No.		209 (cont)	
LM End	5.72	Issue Type +	En	Location *		LS	
Supplemental				GPS La	titud	le/Longitude	
Calegory	Category					End	
Item	DWR UC	P Field Study		37.4330	03 °	37.433003°	
пеш				-121.0293	46 °	-121.029346°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:43100 DS_ID:20212 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: Flapgate has minor blockage preventing gate from

fully closing.

FIELD_STRUCT_DESC: 30-inch square reinfornced concrete box culvert through levee 9.0 feet below crown. Slide gate in concrete surge box on the waterward slope. Concrete "U" headwalls on both ends. Flap gate on the waterward end. Originally included in 1964 O&M manual.

FS Date: 10/1/2013



Concrete U-shaped headwall on LS toe.

LM Start	6.24	Rating **	М	Issue No.		200
LM End	6.24	Issue Type +	En	Location *		LS
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	DWR UCI	P Field Study		37.42903	32 °	37.429032 °
пеш				-121.02986	7°	-121.029867°
DWR ID						

Comment Code

Inspector Comment

FS_ID:21683 DS_ID:20214 EP_NO: 8194

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe heavily deteriated on LS toe. May indicate condition of rest of pipe is bad. Good candidate for video inspection. FIELD_STRUCT_DESC: 18-inch concrete pipe through levee 3.0 feet below crown (Permit No. 8194 1972). Slide gate inside 36-inch concrete standpipe on WS shoulder. Originally included in 1964 O&M manual. FS Date: 10/1/2013

Photo 1 of 2: UCIP_FA_2016_21683_36882.jpg



Drainage/irrigation canal on LS toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	11/08/2016 11/08/2016	Pavel Kazi

LM Start	6.24	Rating **	М	Issue No.	200 (cont)			
LM End	6.24	Issue Type +	En	Location *		LS		
Category	Supplemental			GPS Latitude/Longitude				
Calegory				Start		End		
DWR UCIP Field Study		37.429032		37.429032°				
пеш				-121.029867°		-121.029867°		
DWR ID								
Comment Code								

Inspector Comment

FS_ID:21683 DS_ID:20214 EP_NO: 8194

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe heavily deteriated on LS toe. May indicate condition of rest of pipe is bad. Good candidate for video inspection. FIELD_STRUCT_DESC: 18-inch concrete pipe through levee 3.0 feet below crown (Permit No. 8194 1972). Slide gate inside 36-inch concrete standpipe on WS shoulder. Originally included in 1964 O&M manual.

FS Date: 10/1/2013



36-inch concrete standpipe on WS shoulder.